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 N° d'accès Derwent: 89-214021 [30]  
 Titre Derwent: Betaine Gp-contg. polysaccharide with recurring anhydro-glucose units - used in hair compsns., fibre or fabric treatment, paper pulp prodn. and as thickeners

TEXT\_Mots-Clés Papp: POLYMERE AMPHOTERE POLYSACCHARIDE BETAINES CELLULOSE ETHER BETAINES SY PREPARATION  
 CHEVEUX SOIN CONDITIONNEMENT EPAISSISSANT

Domaine Principal: Polymères cosmétiques (nouveaux composés)  
 Déposants: GOLDSCHMIDT TH AG; GOLDSCHMIDT AG TH  
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Résumé (+ Use/Advantage): DE3820030 A polysaccharide with recurring anhydro glucose units possesses N-(3-chloro-2-hydroxy propyl)-N-carboxyalkyl-N, N-dialkyl ammonium betaine gps. ClCH<sub>2</sub>-CH(OH)-CH<sub>2</sub>-N(+)R<sub>3</sub>R<sub>4</sub>-R<sub>5</sub>-COO(-) (II) (where each R<sub>1</sub> is -CH<sub>3</sub>, (CnH<sub>2n</sub>O)mR<sub>2</sub> or (III), n=2 or 3; m=0-10; p=0-10; R<sub>2</sub> is H or -CH<sub>2</sub>-CH(OH)-CH<sub>2</sub>-N(+)R<sub>3</sub>R<sub>4</sub>-R<sub>5</sub>-COO(-); R<sub>3</sub> and R<sub>4</sub> each are 1-4C alkyl; R<sub>5</sub> is a divalent 1-10C aliphatic hydrocarbon gp and at least 0.5% (5-20%) of the R<sub>1</sub> gps are betaine gps. Such a polysaccharide may be prep'd by reacting a polysaccharide with recurring anhydroglucose units with NaOH in a polar organic solvent and then reacting with a betaine (II). USE | The polysaccharides give hair an improved smoothness shine and combability and are also useful as thickeners and protective colloids. Used to treat fibres, fabrics etc. to improve the handle by lowering electrostatic charge. Also useful for addn. to paper pulp and for thickening aq. binders. (12pp Dwg.No.0/0); G82219588 A polysaccharide comprising recurring anhydroglucose units of the average general formula (I); wherein the groups R<sub>1</sub> are identical or different and each is a methyl, (CnH<sub>2n</sub>O)mR<sub>2</sub> or gp. (i) in which n is 2 or 3, m is 0 to 10 and p is 0 to 10, and R<sub>2</sub> is hydrogen or a betaine group of formula (II); in which R<sub>3</sub> and R<sub>4</sub> are identical or different each is a straight chain or branched C1-C6 alkyl group and R<sub>5</sub> is a straight chain or branched divalent aliphatic C1-C10 hydrocarbon group, with the proviso that at least 0.5% of the radicals R<sub>1</sub> in the polysaccharide molecule comprise a betaine group.; US5124446 Betaine gp.-contg. polysaccharide has recurring anhydro-glucose units of formula (I). Each R<sub>1</sub> is Me, (CnH<sub>2n</sub>O)mR<sub>2</sub> or CH<sub>2</sub>CH(CH<sub>2</sub>OH)O)pR<sub>2</sub>; n is 2 or 2; m and p are each 0-10; R<sub>2</sub> is H or CH<sub>2</sub>CH(OH)CH<sub>2</sub>N(R<sub>3</sub>)(R<sub>4</sub>)R<sub>5</sub>-COO; R<sub>3</sub> and R<sub>4</sub> are each (1-4C)alkyl; and R<sub>5</sub> is divalent (1-10C)aliphatic hydrocarbon; such that 0.5% or more of the R<sub>1</sub> gps. are the betaine gp. USE | In synthesis of cosmetic prepn. as hair care compsns. (Dwg.0/0); US5243072 Betaine cpd has formula ClCH<sub>2</sub>CH(OH)CH<sub>2</sub>N(R<sub>3</sub>)R<sub>5</sub>COO; where R<sub>3</sub> and R<sub>4</sub> are each (1-4C)alkyl, and R<sub>5</sub> is divalent (1-10C)aliphatic. Betaine gp.-contg. polysaccharide with recurring anhydro-glucose units have formula (I), and are prep'd. from the betaine cpd. R<sub>1</sub> is Me, (CnH<sub>2n</sub>O)mR<sub>2</sub> or CH<sub>2</sub>CH(CH<sub>2</sub>OH)O)pR<sub>2</sub>; R<sub>2</sub> is H or CH<sub>2</sub>CH(OH)CH<sub>2</sub>N(R<sub>3</sub>)(R<sub>4</sub>)R<sub>5</sub>COO; n is 2 or 3; and m and p are each 0-10. At least 0.5% of the R<sub>1</sub> gps are the betaine. USE | As hair care or other cosmetic prepn. (Dwg.0/0)

Use / Advantage: DE3820030.1 USE > The polysaccharides give hair an improved smoothness shine and combability and are also useful as thickeners and protective colloids. Used to treat fibres, fabrics etc. to improve the handle by lowering electrostatic charge. Also useful for addn. to paper pulp and for thickening aq. binders. (12pp Dwg.No.0/0); G82219588 empty field; US5124446 1 USE > In synthesis of cosmetic prepn. as hair care compsns. (Dwg.0/0); US5243072 1 USE > As hair care or other cosmetic prepn. (Dwg.0/0)

Nb Priorités: 1  
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